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1　XMLTM: efficient transaction management for XML documents
Torsten Grabs, Klemens Böhm, Hans-Jörg Schek
November 2002 CIKM '02: Proceedings of the eleventh international conference on Information and knowledge management
Publisher: ACM

Full text available: 📄 Pdf (343.12 KB)　Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 7,　Downloads (12 Months): 60,　Citation Count: 6

A common approach to storage and retrieval of XML documents is to store them in a database, together with materialized views on their content. The advantage over "native" XML storage managers seems to be that transactions and concurrency are for free, ...

Keywords: XML storage managers, transaction management for XML

2　Holistic twig joins: optimal XML pattern matching
Nicolas Bruno, Nick Koudas, Divesh Srivastava
June 2002 SIGMOD '02: Proceedings of the 2002 ACM SIGMOD international conference Management of data
Publisher: ACM

Full text available: 📄 Pdf (1.34 MB)　Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 29,　Downloads (12 Months): 285,　Citation Count: 112

XML employs a tree-structured data model, and, naturally, XML queries specify patte of selection predicates on multiple elements related by a tree structure. Finding all occurrences of such a twig pattern in an XML database is a core operation for ...

3　Structure and value synopses for XML data graphs
Neoklis Polyzotis, Minos Garofalakis
August 2002 VLDB '02: Proceedings of the 28th international conference on Very Large Data Bases
Publisher: VLDB Endowment

Full text available: 📄 Pdf (203.45 KB)　Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3,　Downloads (12 Months): 36,　Citation Count: 4

All existing proposals for querying XML (e.g., XQuery) rely on a pattern-specification language that allows (1) path navigation and branching through the label structure o the XML data graph, and (2) predicates on the values of specific path/branch ...

4　XIRQL: a query language for information retrieval in XML documents
Norbert Fuhr, Kai Großjohann
September 2001 SIGIR '01: Proceedings of the 24th annual international ACM SIGIR

conference on Research and development in information retrieval

Publisher: ACM

Full text available: Pdf (234.90 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 8,   Downloads (12 Months): 78,   Citation Count: 49

Based on the document-centric view of XML, we present the query language XIRQL. Current proposals for XML query languages lack most IR-related features, which are weighting and ranking, relevance-oriented search, datatypes with vague predicates, and ...

5   Query optimization for OLAP-XML federations
Dennis Pedersen, Karsten Riis, Torben Bach Pedersen
November 2002 DOLAP '02: Proceedings of the 5th ACM international workshop on Data Warehousing and OLAP

Publisher: ACM

Full text available: Pdf (205.89 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 19,   Downloads (12 Months): 80,   Citation Count: 3

The changing data requirements of today's dynamic business environments are not handled well by current OLAP systems. Physically integrating unexpected data into such systems is a long and time-consuming process making logical integration, i.e., federation, ...

Keywords: OLAP, XML, database federations, query optimization